

# Shear Connectors



## Shear Connectors for composite support or bridge construction



Have they been mechanically tested to AS1554.2 & AS/NZS ISO 13918:2020

Are there credible test reports available?

Are they stud base qualified to AS1554.2 & AS/NZS ISO 13918:2020



If the answer is no to any of the above, then the products may be inferior and possibly non-compliant.

Antec has been manufacturing and distributing Shear Connectors in Australia for over 20 years and is dedicated to manufacturing and supplying the highest quality products to ensure the highest level of safety and reliability.

### Advantages for Antec distributed - Sinoars Shear Studs:

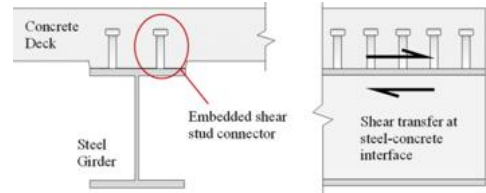
1. High quality phosphating surface not only assures the forming of the shear studs, but also prevent rusting. Studs surface of others shall have oils (in order to prevent rust), will cause welding porosity in the welding collar.
2. Flat end makes sure the consistency of 360° welding collar. Round chamfer effectively avoids arc-blow, guarantee the welding quality.
3. The aluminium balls are all automatically installed with same depth and same height which guarantees the quality consistent of the shear studs and make sure no ball drops.



For more information on Antec's extensive range of Shear Connectors please contact us on **02 9622 9622** or visit [www.antec.com.au](http://www.antec.com.au).



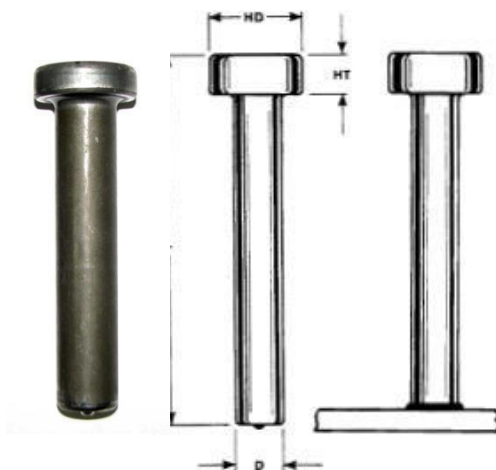
Headed Shear Connectors are used as an essential Component in composite beam design and construction.



Shank Diameter (d)	Length (L) tolerance	Head Diameter tolerance	Minimum head height HT
19.0 +0.00 -0.38	±1.6	31.7 ± 0.4	9.5
22.2 +0.00 -0.38	±1.6	34.9 ± 0.4	9.5

Material	Mechanical Properties	
LOW CARBON STEEL AS1445 S1010 to S1020 or K1010 to K1020	Tensile Yield Elongation Reduction of area	410MPa (min) 345MPa (min) 12% 50% (min)

Shear Connectors		
Size	Part Number	Pack Size
13 X 50	ESC11-13-050	250
13 X 75	ESC11-13-075	200
13 X 100	ESC11-13-100	160
16 X 75	ESC11-16-075	120
16 X 100	ESC11-16-100	100
16 X 150	ESC11-16-150	70
19 X 75	ESC11-19-075	90
19 X 95	ESC11-19-095	75
19 X 100	ESC11-19-100	70
19 X 105	ESC11-19-105	70
19 X 115	ESC11-19-115	60
19 X 120	ESC11-19-120	60
19 X 127	ESC11-19-127	60
19 X 150	ESC11-19-150	50
19 X 178	ESC11-19-178	40
19 X 198	ESC11-19-198	40
22 X 100	ESC11-22-100	60
22 X 125	ESC11-22-125	40
22 X 150	ESC11-22-150	40
22 X 178	ESC11-22-178	30
22 X 198	ESC11-22-198	30



## FERRULE



Note Ferrules are a component part of studs and not sold separately.